8*10/100/1000Base-T+8*100/1000Base-X SFP+

4*1G/2.5G/10GBase-X SFP+

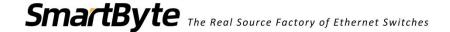
LT-IS6320XG-4XS8GX8GT series





Features:

- > 8*10/100/1000Base-T RJ45, 8*100/1000Base-X SFP, 4*1G/2.5G/10GBase-X SFP+
- ➤ 12-75V redundant DC power supply with polarity reverse/over-voltage/over-current protection
- Support USB one key configuration & upgrading
- ➤ DI/DO/RS485 are optional
- ➤ Layer 3 feature: Support IPv4/IPv6 static routing, DHCP server
- Layer 2 features: VLAN; ERPS, STP/RSTP/MSTP; Link aggregation, IGMP snooping, port mirroring, QinQ, 802.1X, port isolation, RMON, NTP client, DHCP snooping/client, Ping/Tracert test, ACL, QoS and SFP DDM function
- Management and maintenance: IPv4 and IPv6 management; Support Web, SNMP, CLI, Telnet/SSH management method; Support user management, system log, configuration upload/download through web interface, firmware upgrade via HTTP/TFTP/USB
- Support G.8032 ERPS protocol, recovery time ≤20ms
- > Support 6KV surge protection and ESD: Air-15kV, Contact-8kV Protection
- > IP40 fan-less and Din-rail hardware design
- ➤ Operation temperature: -40 °C ~+ 80 °C



Overview

The SmartByte LT-IS6320XG-4XS8GX8GT series are the highly reliable Layer 2+ managed industrial Ethernet switches with 8-port 10/100/1000Base-T RJ45 , 8-port 100/1000Base-X SFP and 4-port 1G/2.5G/10GBase-X SFP+. With full gigabit downlink and 10G uplink capability, they can provide high performance and the ability to quickly transfer large amounts of video, voice, and data across a network. They support DI/DO/RS485, G.8032 ERPS, MSTP/RSTP/STP redundancy technologies, IPv4/IPv6 static routing, DHCP server and robust layer 2 management and secure function, which all making them ideal for large-scale industrial networks.

LT-IS6320XG-4XS8GX8GT series are also high cost-effective easy-to-use devices, which provide essential industrial Ethernet networking function, including redundant power supply with DC12-75V input, robust IP40 fan-less housing with Din-rail installation, wide operation temperature from -40°C to 80 °C as well as high-level EMI/EMC capability. They are the best choice for heavy industrial factory, transportation, oil & gas, chemical, IP Surveillance and processing automation area where environmental conditions are harsh and critical.

Technical specification

Model No.	LT-IS6320XG-4XS8GX8GT/LT-IS6320XG-4XS8GX8GT-D		
	1G/2.5G/10G Fiber ports	100/1000 fiber ports	10/100/1000M RJ45
Interface	4	8	8
Ethernet	8*10/100/1000Base-T RJ45 8*100/1000Base-X SFP (1-8 ports) 4*1G/2.5G/10GBase-X SFP+ (17-20 ports)		
Management port	1*RJ45 Console port (115200,8,N,1) , 1*USB 2.0 for configuration and firmware update		
Data & Alarm channel (optional)	1 channel RS485		
	1 channel DI(digital input)		
	1 channel DO(digital output)		
	IEEE 802.3 10Base-T Ethernet		
	IEEE 802.3u 100Base-TX Ethernet		
	IEEE 802.3ab 1000Base-T Ethernet		
Standard	IEEE 802.3z 1000Base-X Ethernet		
	IEEE802.3x Flow Control and Back Pressure		
	IEEE 802.1D Spanning Tree Protocol		
	IEEE 802.1w Rapid Spanning Tree Protocol		

	IEEE 802.1Q VLAN		
	ITU-T G.8032 ERPS		
	IEEE 802.1X Port Authentication Network Control		
	IEEE 802.1ab LLDP		
	IEEE 802.3ad LACP		
LED Indicators			
P1/P2 (Power indicator) Green	Off: the device is power off or failed	On: the device power on is normal	
SYS(System status indicator)	Blinking: device initialization	On: device on normal operation	
	Off: USB flash drive not insert or not detected by device		
USB (USB status indicator) Green	On: USB flash drive is detected by device		
	Blinking: the device is reading and writing the data from USB flash drive		
ALM(Fault status indicator) Red	Off: Device on normal working state	On: Fault alarm	
Ring(Ring network indicator)	Off: Ring network disable	On: Ring network enable	
	Off: ports link down		
9-16 (Copper ports indicators) Green	On: ports link up		
	Blinking: data on TX/RX		
9-16(Copper speed	Off: ports on 10/100M		
indicators) Yellow	On: ports on 1000M		
	Off: ports link down		
1-8/ 17-20(Fiber ports indicators) Green	On: ports link up		
	Blinking: data on TX/RX		
Power parameter			
Input voltage	12-75VDC redundant power input		
Input current	2.5A DC/DC input Max		
Total power consumption	Full loading ≤27W		
Connector	Removable 2*2-pin terminal block		
Reverse polarity protection	Support		
Over-voltage protection	Support		
-			

Over-current protection	Support	
Layer 2 functions		
Port aggregation	Support GE port aggregation	
	Support 2.5GE aggregation	
	Support 10GE aggregation	
	Support static aggregation	
	Support LACP dynamic aggregation	
	Up to 64 aggregation groups and up to 8 ports per group	
	Support IEEE802.3x flow control,	
	Support interface counters,	
David Cardana	Support port isolation,	
Port features	Port mirroring (One-to-One, Many-to-One)	
	Support loop detection(Port-based; VLAN-based)	
	Support broadcast storm suppression(broadcast; unknown multicast;	
	unknown unicast)	
	Support static Mac-address management	
Mac-address table	Support dynamic Mac-address Management	
management	Support filtering Mac-address	
	Support MAC limit based on port and VLAN	
	Support MAC flapping based on port and VLAN	
	Support access mode	
VLAN	Support trunk mode	
	Support hybrid mode	
	Mac Based VLAN	
VLAN classification	IP Based VLAN	
	Protocol Based VLAN	
	Normal mode	
GVRP	Fixed mode	
	Forbidden mode	
	Port-based QinQ	
QinQ	VLAN-based QinQ(VLAN-stacking; VLAN-mapping)	
	Flow-based QinQ	
LLDP	LLDP (Link Layer Discovery Protocol)	
Ring network protocol	Support IEEE802.1D-STP	
	Support IEEE802.1W-RSTP	
	Support IEEE802.1S-MSTP	
	Support G.8032 ERPS protocol, single ring, sub Ring and major ring	
	Recovery time ≤20ms	

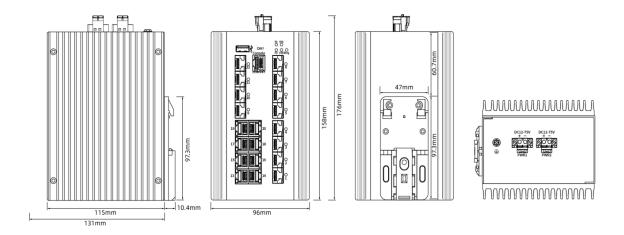
Multicast functions		
IGMP snooping	Support IGMP snooping	
Group address	Support group address	
Security functions		
ACL	IP Standard ACL MAC extend ACL IP extend ACL IPv6 ACL	
QoS	Support QoS Class, remarking Support SP, WRR queue scheduling Ingress port-based rate-limit Egress port-based rate-limit Support policy-based QoS	
802.1x	Port access control Mac-address access control RADIUS server	
Port-security	Port-security	
IP source guard	IP Port/MAC binding	
ARP-check	Support ARP-check and ARP packet filtering for illegal users	
Access control	Support Telnet/SSH/HTTP/HTTPS user access control	
Management & Maintenance	functions	
User Management	Support password protection Support user authorization management	
SNMP	Supporting SNMP V1/V2C/V3 version	
Web Management	Web Management Support HTTP V1.1 Support HTTPS	
CLI management	Console/Telnet command line management	
RMON	Support RMON(Remote Monitoring) alarm	
Firmware upgrade	Firmware upgrade	
Fault Detection	Ping/Tracerout Dying gasp Support optical transceiver DDM function	
Cable detection	Support copper port cable detection	

NTP	Network Time Protocol	
Syslog/Debug	Syslog/Debug Syslog send to three servers	
Configuration import/export	Support FTP/TFTP remote import/export Support USB import/export	
Dual partition management	Support dual partition switching	
Application Protocol Functions		
DHCP Snooping	DHCP snooping trust port Support remote-id/circuit-id configuration DHCP option-82	
DHCP client	Support DHCP client	
Telnet server	Support telnet server	
Telnet client	Support telnet client	
SSH server	Support SSH server	
TACACS	Support TACACS(the terminal access controller accesses the control system)	
sflow	Support network traffic analysis	
TFTP	Support TFTP Client	
Layer 3 functions		
ARP	ARP table aging	
DHCP server		
IPv4 / IPv6	static routing	
Switching features		
Switching capacity	112 Gbps	
Packet forwarding rate	166.6Mpps	
MAC address table	16K	
VLAN	4K	
Buffer	12M bit	
Forwarding delay	<5us	
Jumbo Frame	Support 10Kbytes	
MDX/MIDX	Support	

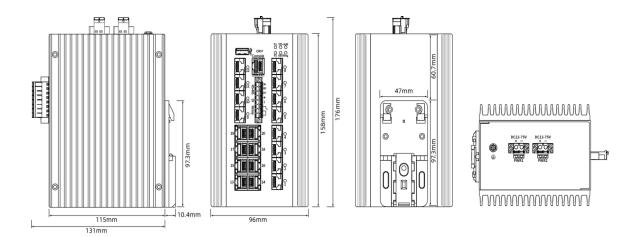
Watchdog	Support	
Mechanical structure		
Case protection	IP40	
Installation method	Din-rail	
Dimension(W*D*H)mm	96*115*158mm	
Weight	LT-IS6320XG-4XS8GX8GT: 1.8kg; LT-IS6320XG-4XS8GX8GT-D: 1.9kg	
Operating environment		
Operating temperature	-40°C~+ 80°C	
Storage/transportation temperature	-40°C~+ 85°C	
Relative humidity	Operation humidity: 10%-90%RH	
Industrial Standard	Storage humidity: 5%-95%RH	
ilidustriai Stailuaru	Surge protection of power: IEC 61000-4-5 DC:6KV/6KV (8/20us)	
EMS	Surge protection of Ethernet ports: IEC 61000-4-5 6KV/2KV (10/700us) RS: IEC 61000-4-3 80 MHz-1 GHz: 10 V/m	
	EFT: IEC 61000-4-4 power 4K, signal 2K CS: IEC 61000-4-6 10V ESD: IEC 61000-4-2 Contact: 8K; Air: 15K	
EMI	FCC Part 15B Class A	
Shock	IEC 60068-2-27	
Free fall	IEC 60068-2-32	
Vibration	IEC 60068-2-6	
Certification	CCC/CE/UKCA/RoHS/REACH/FCC	
MTBF	> 200,000 hours	
Warranty	5 years	

Structure diagram

LT-IS6320XG-4XS8GX8GT



LT-IS6320XG-4XS8GX8GT-D





Order information

Model	Description
LT-IS6320XG-4XS8GX8GT	L2+ Managed industrial Ethernet switch with $4*1G/2.5G/10GBase-X$ SFP+ ports , $8*100/1000Base-X$ SFP and $8*10/100/1000Base-T$ RJ45 ports. Dual redundant DC 12-75V input , Din-rail installation; Operation temperature -40 °C to 80 °C
LT-IS6320XG-4XS8GX8GT-D	L2+ Managed industrial Ethernet switch with 4*1G/2.5G/10GBase-X SFP+ ports, 8*100/1000Base-X SFP and 8*10/100/1000Base-T RJ45 ports. Support DI/DO/RS485; Dual redundant DC 12-75V input, Din-rail installation; Operation temperature -40°C to 80 °C